

LOCAL NETWORK ROUTER AND METHOD OF ROUTING IP
DATA PACKETS

Abstract of the Disclosure

5

A local network router learns to route IP traffic among customer premises equipment on a local network rather than permitting the IP traffic to be routed through a broadband cable network and selected internet service provider (ISP) to the internet. The local network router dynamically generates a routing table from address resolution protocol (ARP) packets exchanged between the CPE and the external network. For each IP data packet received from a CPE that is destined for another local CPE, the local network router replaces a default gateway address with an IP address corresponding with the destination CPE. Accordingly, network resources for routing traffic are significantly reduced.

20